MiniMc Series

Switching and Gigabit Miniature Media Converters

RoHS Compliant

MEDIA CONVERSION

The MiniMc Series offers the smallest, most reliable and most cost-effective switching 10/100 Mbps and Gigabit media converters in the industry.

Features and Benefits

The most cost-effective fiber converters available today

- Giga-MiniMc connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- 10/100 Mbps Switching MiniMc connects 10/100 Mbps copper to 100 Mbps fiber
- MiniMc-Gigabit converts 1000 Mbps copper to 1000 Mbps fiber
- 6-year comprehensive warranty on all converters and power adapter

Plug-and-Play Operation

- User-friendly 10/100 Mbps or 10/100/1000 Mbps Auto Negotiation technology on switching MiniMc's
- AutoCross feature for twisted pair connection on all converters

Perfect for a variety of applications

- Standalone MiniMc includes country-specific, high-reliability AC power adapter or power the MiniMc with a USB-power cord (10/100 Mbps switching models only)
- Available for multi-mode fiber, single-mode fiber, and single-strand fiber

Space saving alternative

- Standalone unit has small, rugged enclosure with compact, external AC power adapter
- 18 connections in the 1.5U high IE-PowerTray/18 rackmountable enclosure

Additional modes on select units

- Link Fault Pass-Through (LFPT): a troubleshooting feature that monitors the copper and fiber ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port (Pass-Through) and notifies the user via LED

Media conversion is the most cost-effective solution for extending the productive life of legacy wiring plants and equipment while allowing implementation of new technologies. Media conversion's greatest benefits are flexibility and cost savings. However, with networks constantly growing and projects increasing in scope, even reasonably-priced media converters can tack on a substantial sum to networking costs. Space constraints can also be an issue when hundreds of conversions are required.

IMC Networks once again has the solution. Measuring less than 3.5 inches deep and 2 inches wide, MiniMc is the industry's smallest media converter with both data connections on the same side of the unit, and MiniMc is a fraction of the cost of other alternatives. The series features a variety of 10/100 and Gigabit versions.

MiniMc SFP includes:

- One 100 Mbps SFP port
- One 10/100 Base-TX twisted pair port that auto-senses the connected device's rate and duplex mode (Half-/Full-Duplex)

MiniMc features:

- One 100 Mbps FDX fiber port
- One 10/100 Base-TX twisted pair port that auto-senses the connected device's rate and duplex mode (Half-Duplex/Full-Duplex)

MiniMc-Gigabit features:

- One 1000Base-SX or 1000Base-LX fiber port
- One 1000Base-T twisted pair port

Giga-MiniMc features:

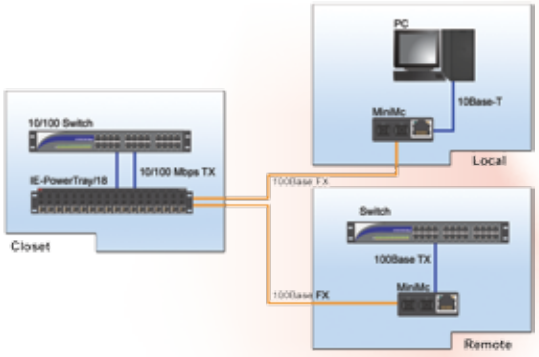
- One 1000Base-SX or 1000Base-LX fiber port
- One 10/100/1000 Mbps twisted pair port that auto-senses the connected device's speed and duplex mode

Giga-MiniMc LFPT features:

- One 1000Base-SX or 1000Base-LX fiber port
- One 10/100/1000 Mbps twisted pair port that auto-senses the connected device's speed and duplex mode
- Link Fault Pass-Through mode

Application Example

As a standalone unit, install *MiniMc* virtually anywhere, even areas where space is extremely limited. For applications requiring hundreds of connections, install *MiniMcs* in several of the very high-density *IE-PowerTray/18* enclosures each of which allows 18 conversions in only 1.5 rack units of space.



Technical Specifications

- Plug-and-play operation
- RJ-45, ST or SC and SFP connectors available (ST connectors not offered for Gigabit speeds)
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- Available with single-strand fiber support
- Country-specific, high-reliability power adapter
- Auto Negotiation, Auto-Cross for MDI/MDIX
- Status LEDs

Supported Packet Size:

- MiniMc: 1916 packets
- Giga-MiniMc: 1536 packets

Regulatory Approvals:
- FCC Class A (Giga-MiniMc only)
- FCC Class B (MiniMc & MiniMc Gigabit)
- UL/cUL, CSA, CE

Dimensions:
0.83"H x 1.80"W x 3.35"D
(2.11 x 4.57 x 8.51 cm)

Shipping Weight:
0.7 lbs (.317 kg)

Power Rating:
5 VDC, 500mA

Operating Temperature:
+32° F to +122° F (0° C to +50° C);
5% to 95% (non-condensing)

AC Adapter:
+32° F to +122° F (0° C to +50° C);

Storage Temperature:
-31° F to +167° F (-35° C to +75° C);
5% to 95% (non-condensing)

IE-PowerTray/18-AC

- 18 slots for powering MiniMc, MiniMc SFP, Giga-MiniMc, MiniMc-Gigabit, IE-MiniMc and IE-Giga-MiniMc fiber converters
- 1.5U high, rack mountable enclosure

Regulatory Approvals:
- FCC Class A
- UL/cUL, CSA, CE

Dimensions
2.30"H x 16.97"W x 9.25"D
(5.80 x 43.10 x 23.5 cm)

Shipping Weight
10 lbs (4.5 kg)

Power Information
AC Input Load:
100 to 240 ±10% VAC, 50/60Hz, 1.5 to 0.75A

Operating Temperature
-4° F to +158° F (-20° C to +70° C);
5% to 95% (non-condensing)

Storage Temperature
-40° F to +185° F (-40° C to +85° C);
5% to 95% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000 for a free consultation.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
MiniMc 10/100 *		
855-10619	MiniMc, TP-TX/SFP §	Varies
855-10620	MiniMc, TP-TX/FX-MM850-ST	2 km
855-10621	MiniMc, TP-TX/FX-MM850-SC	2 km
855-10622	MiniMc, TP-TX/FX-MM1300-ST	5 km
855-10623	MiniMc, TP-TX/FX-MM1300-SC	5 km
855-10624	MiniMc, TP-TX/FX-SM1310/PLUS-ST	40 km
855-10625	MiniMc, TP-TX/FX-SM1310/PLUS-SC	40 km
855-10626	MiniMc, TP-TX/FX-SM1310/LONG-ST	80 km
855-10627	MiniMc, TP-TX/FX-SM1310/LONG-SC	80 km
855-10641	MiniMc, TP-TX/FX-SM1550/LONG-SC	80 km
MiniMc 10/100 Single-Strand Fiber * ¥		
855-10650	MiniMc, TP-TX/SSFX-MM1300-SC	2 km
855-10651	MiniMc, TP-TX/SSFX-MM1550-SC	2 km
855-10652	MiniMc, TP-TX/SSFX-SM1310-SC	20 km
855-10653	MiniMc, TP-TX/SSFX-SM1550-SC	20 km
855-10654	MiniMc, TP-TX/SSFX-SM1310/PLUS-SC	40 km
855-10655	MiniMc, TP-TX/SSFX-SM1550/PLUS-SC	40 km
855-10656	MiniMc, TP-TX/SSFX-SM1310/LONG-SC	60 km
855-10657	MiniMc, TP-TX/SSFX-SM1550/LONG-SC	60 km

PART NUMBER	DESCRIPTION	DISTANCE
MiniMc-Gigabit 1000 *		
855-10730	MiniMc-Gigabit, TX/SX-MM850-SC	220/550 m
855-10731	MiniMc-Gigabit, TX/LX-SM1310-SC	15 km
855-10732	MiniMc-Gigabit, TX/LX-SM1310/PLUS-SC	40 km
855-10733	MiniMc-Gigabit, TX/LX-SM1550/LONG-SC	80 km
MiniMc-Gigabit 1000 Single-Strand Fiber ¥		
855-10742	MiniMc-Gigabit, TX/SSBX-SM1310-SC	10 km
855-10743	MiniMc-Gigabit, TX/SSBX-SM1490-SC	10 km
855-10734	MiniMc-Gigabit, TX/SSLX-SM1310-SC	15 km
855-10735	MiniMc-Gigabit, TX/SSLX-SM1550-SC	15 km
855-10744	MiniMc-Gigabit, TX/SSBX-SM1310/PLUS-SC	30 km
855-10745	MiniMc-Gigabit, TX/SSBX-SM1490/PLUS-SC	30 km
855-10736	MiniMc-Gigabit, TX/SSLX-SM1310/PLUS-SC	40 km
855-10737	MiniMc-Gigabit, TX/SSLX-SM1550/PLUS-SC	40 km
855-10738	MiniMc-Gigabit, TX/SSLX-SM1510/LONG-SC	70 km
855-10739	MiniMc-Gigabit, TX/SSLX-SM1570/LONG-SC	70 km

* Modular versions without AC adapter, change the two Part Numbers after the 8 to 54.
♦ For information on unidirectional versions, go to: www.imcnetworks.com/XXXXX .

PART NUMBER	DESCRIPTION	DISTANCE
Giga-MiniMc 10/100/1000 *		
856-10730	Giga-MiniMc, TX/SX-MM850-SC	220/550 m
856-10728	Giga-MiniMc, TX/LX-MM1310-SC	2 km
856-10731	Giga-MiniMc, TX/LX-SM1310-SC	15 km
856-10732	Giga-MiniMc, TX/LX-SM1310/PLUS-SC	40 km
856-10733	Giga-MiniMc, TX/LX-SM1550/LONG-SC	80 km
856-10729	Giga-MiniMc, TX/LX-SM1550/XLONG-SC	100 km
Giga-MiniMc 10/100/1000 Single-Strand Fiber * ¥		
856-10742	Giga-MiniMc, TX/SSBX-SM1310-SC	15 km
856-10743	Giga-MiniMc, TX/SSBX-SM1550-SC	15 km
856-10744	Giga-MiniMc, TX/SSBX-SM1310/PLUS-SC	30 km
856-10745	Giga-MiniMc, TX/SSBX-SM1490/PLUS-SC	30 km
856-10736	Giga-MiniMc, TX/SSLX-SM1310/PLUS-SC	40 km
856-10737	Giga-MiniMc, TX/SSLX-SM1550/PLUS-SC	40 km
856-10738	Giga-MiniMc, TX/SSLX-SM1490/LONG-SC	70 km
856-10739	Giga-MiniMc, TX/SSLX-SM1550/LONG-SC	70 km

PART NUMBER	DESCRIPTION	DISTANCE
Giga-MiniMc LFPT		
856-11701	Giga-MiniMc/LFPT, TX/SX-MM850-SC	220/550 m

PART NUMBER	DESCRIPTION
IE-PowerTray/18	
850-13086	IE-PowerTray/18-AC (1.5U high, Rackmountable Enclosure)
MiniMc Series Accessories	
806-39105	DIN Rail Clip
806-39720	AC Power Adapter for MiniMc (10 watt, 0° to +50° C) - FranMar
806-39650	12" Barrel-Connector Power Cable
806-39753	IE-Power/5, AC to DC DIN Rail Power Adapter (-20° to +70° C)
806-00720-00	USA Power Adapter Clip - FranMar

¥ These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.
§ SFP modules are sold separately. For more information on compatible IMC Networks SFPs, go to: www.imcnetworks.com/Products/product.cfm?family=32

CWDM wavelengths are also available. Contact IMC Networks for a complete list of part numbers.

FCS FREE Fiber Consulting Services · RoHS · Made in USA · 6-YEAR Comprehensive Warranty · ISO 9001:2008 REGISTERED

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